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## PROFILES

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## **ALGAMAC-2000**

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### TECHNICAL PRODUCT INFORMATION

**Algamac-2000**  
 (Algae Substitute-Replacement Enrichment Diet)  
 LARVAL / POST LARVAL

Manufacturer:

Aquafauna Bio-Marine, Inc.  
 Hawthorne, California 90250, USA

I. Physical Characteristics	Gold powder
II. Qualitative/quantitative formula of composition, (expressed in percentages).	PROXIMATE ANALYSIS
III. Shelf life	Product should be stored at cooler temperatures, away from excessive heat, this product has a shelf life of about 12 months from the date of manufacturing.
IV. Commercial presentation	Vacuum packed foil bags. 500 grams per bag. 12 bags (6kg) /carton
V. Packing	Product is manually packed and mechanically sealed and vacuumed. Product is stored at cooler temperatures.
VI. Interpretation of batch code	No batch code or lot number is used for this product

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### Proximate Analysis

	%
Protein	39
Fat	32
Carbohydrate	13
Ash	12
Moisture	3

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HA

<b>Sterols</b>		(mg/g)
Cholesterol		2.6
Brassicasterol		0.5
Stigmasterol		1.5

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<b>Other</b>		%
Lecithin	(mg/100g)	2860.0
Carotene	(mg/lb)	22.5
Xanthophyll		6.3

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### Fatty Acid Profile

		%
Fatty acid content (% w/w)		29.5
Name	Fatty Acid	(% of total fatty acids)
Myristic acid	14:00	11.0
Palmitic acid	16:00	38.5
Palmitoleic acid	16:01	7.3
Stearic acid	18:00	1.1
Oleic acid	18:01	4.1
Eicosatrienoic acid	20:3w6	0.4
Eicosapentaenoic acid (EPA)	20:5w3	0.6
Docosapentaenoic acid (DPA)	22:5w6	12.9
Docosahexaenoic acid (DHA)	22:6 w3	24.0

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<b>Vitamins</b>	
Vitamin A	(iu/lb) 875.00
Vitamin E	(iu/lb) 10.10
Thiamine	(mg/lb) 6.32
Riboflavin	(mg/lb) 35.71
Pyridocine	(mg/lb) 11.50
Pantothenic Acid	(mg/lb) 7.62
Biotin	(ug/lb) 0.51
Folic Acid	(ug/lb) <4.50
Vitamin B12	(ug/lb) 0.03
Vitamin C	(mg/lb) 321.36
Choline (Chloride)	(ug/lb) 62.43

Niacin (mg/lb) 94.05

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Amino Acid Profile	%
Aspartic Acid	3.08
Threonine	1.45
Serine	1.61
Glutamic Acid	13.09
Proline	3.00
Glycine	1.76
Alanine	2.42
Cystine	0.21
Valine	1.59
Methionine	0.77
Isoleucine	1.11
Leucine	2.56
Tyrosine	0.95
Phenylalanine	1.40
Lysine-HCL	2.62
Histidine-HCL	0.71
Arginine-HCL	2.23
Tryptophan	

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Major Minerals	%
Calcium	0.06
Potassium	2.09
Phosphorus	0.87
Sodium	2.14
Magnesium	0.19
Sulfur	1.60
Chloride	0.76

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Trace Minerals	(ppm)
Iron	227.00
Zinc	99.00
Manganese	124.00
Copper	7.80

Iodide	140.00
Selenium	< 0.05
Cobalt	0.10
Nickel	1.90
Fluorine	< 50.00
Vanadium	< 0.25
Molybdenum	0.65
Tin	1.25
Silicon	301.00

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## DHASCO® (vegetable oil from algae)

### General Characteristics

Appearance: Free flowing light yellow-orange liquid oil (triglyceride)

Pigments: a mixture of  $\beta$ -carotene and  $\gamma$ -carotene (30-50 ppm)

Odor: bland

Antioxidants: ascorbyl palmitate/tocopherols (0.025% each)

Use level: 120 mg/L infant formula

### Proximate Analysis

Protein	< 1%
Carbohydrate	< 1%
Fat	>95%

### Chemical Characteristics

Free fatty acid	< 0.4 %
Peroxide value	< 5 mEq/kg
Soap	< 5 ppm
Nonsaponifiables	< 3.5 %

### Elemental Composition

Phosphorous	< 10 ppm
Arsenic	< 0.1 ppm
Lead	< 0.1 ppm
Iron	< 0.1 ppm
Copper	< 0.1 ppm
Mercury	< 0.2 ppm

### Fatty acid composition

C10:0	0-2 %
C12:0	0-6 %
C14:0	10-20 %
C16:0	10-20 %
C16:1	0-2 %
C18:0	0-2 %
C18:1	10-30 %
C18:2	0-5 %
C22:6	38-42 %
C24:1	0-2 %
others	0-3 %